

Pf-3202/nec/us/mh

ABSTRACT OF THE DISCLOSURE

In a data multiplexing network system, a first wavelength
5 multiplexing function unit sets a plurality of different wavelengths which
correspond to a plurality of different service classes, respectively, and maps
each packet into each correspondent-wavelength which corresponds to each
service class, to which the each packet belongs, and multiplexes the
correspondent-wavelengths for the plurality of different service classes for
10 a data transmission at a multiplexed-wavelength through a wavelength
division multiplexing network. A second wavelength multiplexing function
unit receives the each correspondent-wavelength and fetches a packet from
the each correspondent-wavelength.